Assignment-3
CSE-484
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Step 1. Update the system and install dependencies

```
sudo apt update
```

Once updated, install the dependency packages required to install Docker.

```
sudo apt install apt-transport-https ca-certificates curl
software-properties-common
```

Step 2. Install Docker

First, use the curl command to add the GPG signing key for the Docker repository.

```
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo
gpg --dearmor -o
/usr/share/keyrings/docker-archive-keyring.gpg
```

Next, add the Docker APT repository to your system in the `sources.list.d` directory. Next, add the Docker APT repository to your system in the `sources.list.d` directory.

```
echo "deb [arch=$(dpkg --print-architecture)
signed-by=/usr/share/keyrings/docker-archive-keyring.gpg]
https://download.docker.com/linux/ubuntu $(lsb_release -cs)
stable" | sudo tee /etc/apt/sources.list.d/docker.list >
/dev/null
```

For the newly added Docker repository to be recognized by the system, update the local package index once more.

```
sudo apt update
```

Now, install Docker Community Edition (free to download and use) as follows. The `-y` option allows for non-interactive installation.

```
sudo apt install docker-ce -y
```

Once installed, the Docker daemon or service should be running. To confirm this, run the command:

```
sudo systemctl status docker
```

Step 3. Add user to Docker group

```
sudo usermod -aG docker ${USER}
```

```
su - ${USER}
```

How to run Docker commands

```
docker  info
```

Step 5. Test Docker installation

```
docker run hello-world
```

Step 6. Working with Docker images

```
docker search ubuntu
```

To download the image, run the `docker pull` command.

```
docker pull httpd
```

To list the images downloaded on your system, run the `docker images` command.

```
docker images
```